

## RAW SEQUENCE LISTING

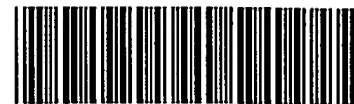
The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/516,0610 061

Source: 1Fw16

Date Processed by STIC: 4/8/05

# ***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 04/08/2005

PATENT APPLICATION: US/09/516,061D

TIME: 15:56:20

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\04082005\I516061D.raw

4 <110> APPLICANT: Gopalan, Venkat  
 5 Jovanovic, Milan  
 6 Eder, Paul S.  
 7 Giordano, Tony  
 8 Powers, Gordon D.  
 9 Xavier, K. Asish  
 12 <120> TITLE OF INVENTION: Novel Bacterial RNase P Proteins and  
 13 Their Use in Identifying Antibacterial Compounds  
 16 <130> FILE REFERENCE: 50093/016001  
 18 <140> CURRENT APPLICATION NUMBER: US 09/516,061D  
 19 <141> CURRENT FILING DATE: 2000-03-01  
 21 <160> NUMBER OF SEQ ID NOS: 98  
 23 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
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 26 <211> LENGTH: 417  
 27 <212> TYPE: DNA  
 28 <213> ORGANISM: Streptococcus mutans  
 30 <400> SEQUENCE: 1  
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 32 gttttgaaaa aagcctatcg cgtaaaggt gataaagatt ttcaggcaat ttttactgaa 120  
 33 ggacgaagtg ttgccaatcg gaaatttggt gtctatagtt tagaaaaaga tcaaagtcac 180  
 34 tatcgtggtg gactttcagt tggaaaaaga ttaggaaatg ctgtcgtagg aaatgcgatt 240  
 35 aaacgaaaat tgcgccatgt ctttatggaa cttggtcctt atttaggcac tcaagatttt 300  
 36 gttgttattg ctagaaaagg tgttgaggaa cttgattata gcacgatgaa aaaaaatctg 360  
 37 gttcatgttt taaaactggc taaactgtat caggaaggat ctattcgtga aaaagaa 417  
 39 <210> SEQ ID NO: 2  
 40 <211> LENGTH: 477  
 41 <212> TYPE: DNA  
 42 <213> ORGANISM: Klebsiella pneumoniae  
 44 <400> SEQUENCE: 2  
 45 cgctcgctg ctaaaggccg cgctcgctg accgtttcca agtaataaag ctaaccctgc 60  
 46 gtggttaagc tcgattttcc cagggagtta cgcttgtaa ctcccagtc tttcactttc 120  
 47 gtcttccagc agccacaacg ggctggcacg ccgcaaata ccatcctcgg ccgcctgaat 180  
 48 tcgctggggc atccccgcat cggctcacc gtcgccaaga aaaacgtgaa acgcgcacat 240  
 49 gaacgcaatc ggattaaacg tctgacgcgt gaaagttttc gtttgcgtca acatgaactc 300  
 50 ccgccaatgg atttcgtggt ggtggcgaaa agagggggtg ccgacctcga taaccgtgct 360  
 51 ctctcggaag cgttggaaaa attatggcgc cgccattgtc gcctggctcg cgggtcctga 420  
 52 tcggcctgat tcgagtttat cagcgcctga ttagtccgct actcggggcg cattgtc 477  
 54 <210> SEQ ID NO: 3  
 55 <211> LENGTH: 455  
 56 <212> TYPE: DNA  
 57 <213> ORGANISM: Salmonella paratyphi  
 59 <400> SEQUENCE: 3

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Input Set : A:\Seqlist.txt

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60 ctgaccgttt ccaagtaata aagctaacc ctagtggtt aagctcgcat ttcccaggga 60
61 gttacgtttg ttaactcccg ctcatctcac attcgtcttc cagcaacctc aacgggctgc 120
62 acgcgcgcaa tcaccatcct cggccgcctg aattcgtctg ggcaccccg tatcggctctt 180
63 accgtcgcca agaaaaatgt tcgacgtgcg catgaacgca accggattaa acgtctgacg 240
64 cgtgaaagct tccgtctgcg ccagcatgaa ctctctgcaa tggatttcgt ggtgggtggcg 300
65 aaaaaagggg ttgccgacct cgataaccgt gctctctcgg aagcgttgga aaaattatgg 360
66 cgccgccact gtcgcctggc tcgcgggtcc tgatagccct tattcgggtc tatcaacgcc 420
67 tgatcagtcc gctgcttggg ccgcattgtc gtttc 455
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72 <213> ORGANISM: Pseudomonas aeruginosa
74 <400> SEQUENCE: 4
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77 gtcttcgact ctccgaccgg caaggtcccc ggcaagcacg tctgtctgct ggcgcgcgag 180
78 aacgggtctc atcaccccg cctgggcctg gtgatcgga agaagaacgt caagctcgcc 240
79 gtccagcgca atcgctcaa acgcctgatc cgcgaatcgt tccgccataa ccaggaaacc 300
80 ctggctggct gggatatcgt ggtgatcgcg cgcaaaggcc tgggcgaact ggaaaatccg 360
81 gagctgcacc agcagttcgg caagctctgg aaacgcctgt tgcgcaatcg acctcgacg 420
82 gaaagccctg ctgacgcccc tggcgtggcc gacggtaact atgcataggt cgatgcccgc 480
83 gcatcccgat ccctgtagtg tcatcccccc ttcatgacc cggcaccg 528
85 <210> SEQ ID NO: 5
86 <211> LENGTH: 510
87 <212> TYPE: DNA
88 <213> ORGANISM: Corynebacterium diphtheriae
90 <400> SEQUENCE: 5
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92 gtcactctta caagctcgaa tagaacgacg gtgctacctt cacagcacia gctcagcaat 120
93 tccgaacagt tccgcgcaac gattcggagg ggcaagcgtg ctgggaggag caccgtcgtt 180
94 cttcattttt atgctgaggg gaccgcgggc aaccttgcaa ccgcaggcgg cccgcgattc 240
95 ggctcgttg tgtccaaggc tgttggaat gctgtgactc gtcaccgtgt ttccgcggcag 300
96 ttaaggcacg tagtaatcgc tatgaaagac cagttcccag cgtcatccca tgttgtgtg 360
97 agggcgatac cgccagcggc gacagcaagt tatgaggagt tgcgggcaga tgtgcaggca 420
98 gcaactcgaca agctcaaccg caagcgataa ggcggttact cgccctcgtg ggctgggttag 480
99 tcgcgcattg tttgatgcgg tgcggttcta 510
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102 <211> LENGTH: 504
103 <212> TYPE: DNA
104 <213> ORGANISM: Chlamydia trachomatis
106 <400> SEQUENCE: 6
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108 attgatctct aagatctttc atttgtgcat cggttaactc tacctaaaag tgcccgccta 120
109 ttgaaacgta aacaatttgt ttacgtgcag cgttgtgggc aatattgtcg tactgatcag 180
110 gcaactttac gaatagttcc ttctcgatc tcgaacatcc gtaaagtagg ggttactgtt 240
111 tctaaaaaat ttgggaaagc ccacagcgc aatcgcttta aaagaattgt gcgagaggct 300
112 tttaggcatg tgcgacaaa tcttcccgca tgtcaagtgg tagtgtctcc taaagggggc 360
113 actctaccaa attttggtta actatccgcg gatcttctta agcatattcc agaggctttg 420
114 cctctcgtaa cttcttctaa gtagtttttt attttggta aaaaataaaa aaccattcca 480

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## RAW SEQUENCE LISTING

DATE: 04/08/2005

PATENT APPLICATION: US/09/516,061D

TIME: 15:56:20

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\04082005\I516061D.raw

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115 cgctatagag gcatggaatg ggaa 504
117 <210> SEQ ID NO: 7
118 <211> LENGTH: 492
119 <212> TYPE: DNA
120 <213> ORGANISM: Vibrio cholerae
122 <400> SEQUENCE: 7
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124 ctaaccacga gaagggcgag agaggcgttg ccatagtttg ccaagcaagt taaacagttc 120
125 ttcattgctc aaatcttgcg cgctcttttt ggcgatgaca acaaaatctt tgttagccag 180
126 ttgattttga tgtaagcgaa agctttctct gcaaatacgt ttgaatcgat tacggccgac 240
127 ggcagttttg atctgctttt taggaaccgc gagtcccaaa cgaggatgag aaagggtatt 300
128 agcgcgagcg atgattgtga gatgaggaga accagcaactg tgagcttgct ggaagacttt 360
129 ttgataatgt tcgggagtta acaaacgtaa ctcccgattg aatgcgtacg tactcaaaat 420
130 aattcgagat tattttgaca ggcgcttacg gccttttgca cgacgtgcat tcagaacttt 480
131 acgaccgttc gc 492
133 <210> SEQ ID NO: 8
134 <211> LENGTH: 492
135 <212> TYPE: DNA
136 <213> ORGANISM: Neisseria gonorrhoea
138 <400> SEQUENCE: 8
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141 ccttgccctgt tttgcggtag ccctgtcgaa tttccggcgg acgcgcacga cgaaatcctg 180
142 aggcggcagc cggtttttgt tcaatctgaa ccagtcgcgg atgacgcgtt tcatatagtt 240
143 ccgctcgttg gcgcgcttg cggttttttt gccgaccacc agaccgatgc ggggatggtc 300
144 cagcccgttg ccgtttgagc gcgaaacttg cagcaggtcg cggctgcggc ggtttctgaa 360
145 tgcaaaaacg gatgaaaaat catccgtttt taacaagcgg tactgccttc cgaagcggta 420
146 gtccaaaatt acactgccag gcgtttgcgg cctttggcac ggcgtgcggc caatactgcg 480
147 cgtccgcgcg gt 492
149 <210> SEQ ID NO: 9
150 <211> LENGTH: 492
151 <212> TYPE: DNA
152 <213> ORGANISM: Neisseria meningitidis
154 <400> SEQUENCE: 9
155 tgttccttag tatgggaaac ccgttgccgt ctgaaccttg cctgcagagt accgtttctga 60
156 tcatgcctgt ttctgcacac cggttgcggg gttgccgaac atgagttgtg ccagttccgc 120
157 ccttgccctgt tttgcggtag ccctgtcgaa tttacggcgg acgcgcacga cgaaatcctg 180
158 cggcggcagc cggtttttgt tcaatctgaa ccagtcgcgg atgacgcgtt tcatataatt 240
159 tcgttcgttg gcgcgcttg cggttttttt gccgaccacc agaccgatgc ggggatgac 300
160 cagcccgttg ccgtttgaac gcgaaacttg cagcaggtcg cggctgcggc ggtttctgaa 360
161 tgcaaaaacg gatgaaaaat catccgtttt caacaagcgg tactgccttc cgaagcggta 420
162 gtccaaaatt acaccgccag gcgtttgcgg cctttggcgc gccgtgcggc caatactgcg 480
163 cgtccgcgcg gc 492
165 <210> SEQ ID NO: 10
166 <211> LENGTH: 462
167 <212> TYPE: DNA
168 <213> ORGANISM: Streptococcus pyogenes
170 <400> SEQUENCE: 10
171 gttacctcac cagcaccaca ggccactaat aatagaacta aggggactat tcttgcaatt 60

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172 ttaatgtttt tcttactctt caaaaccttt ctcaagcaat tgtgctaact ttaaaacatg 120
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174 cacgaaatcc tctgacttca gctgatgcc taatgccatg ataacatgac gtatctttcg 240
175 tttgactgca tttctggtga ctgcatttcc tattttttta ccgacagaaa taccacacag 300
176 gaagtgggtct tggcctctat tttaatgata aatgacaaat tttcgatttg ctgtactttt 360
177 tccatcctta aatatggctt ggaaatcttt ctacgcttg acacgatagg tcttcttcaa 420
178 aatttaactc caatatctaa attattacca ttataccaca tc 462
180 <210> SEQ ID NO: 11
181 <211> LENGTH: 492
182 <212> TYPE: DNA
183 <213> ORGANISM: Bordetella pertussis
185 <400> SEQUENCE: 11
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187 tcatcgcgct atccgtgtga agtgagcacc tacttcggcg cgcgcgcgagc gtttcagggc 120
188 cgtgaggctt gccggtgtca gcttgctgtg cagccgcacc acgtaatcct gggccggcag 180
189 ggcaagccgg cgagcccggg acgcttcgcg gatgacccgc ttcaaggatg tgcgcgtcac 240
190 ggcgcggggc gcaaaacgct tggcgatcac caggcccagg cgcgcgcgcg ccggctgggc 300
191 atcagcaggg gcacagggcg aggcgctgac aataaagaaa gccctcggg ccagtcgccc 360
192 gcctttgagg gcggcgcaa actcggagg gcgatgcaat cgcgcctccg cagggagcgt 420
193 ggcgcgcggc atgggtgacg tgacggagac tggcgacggg gccggcgggc atgctcctgt 480
194 tacaggcaat cc 492
196 <210> SEQ ID NO: 12
197 <211> LENGTH: 534
198 <212> TYPE: DNA
199 <213> ORGANISM: Porphyromonas gingivalis
201 <400> SEQUENCE: 12
202 agaagaaaat ggggagcagt aagagttgca cgagaaaagc cttgatcagt cgcacgtat 60
203 ttactcgtht ttcaaagccg atgaaggtag atttcggca attctgatca gactcttttg 120
204 catcgctctc tccactgtac gaaagtcagg aagttcatcc gatactacca taaatgcaat 180
205 agtagcatag atctgtctct cttggaggac atcgttcagg aggtgtttgt tgagccgata 240
206 agcctccctg accaaacgct tgacctatt gcgcttcacg gctcgcctaa accttttctt 300
207 tgctacgctt accagcatgg aggaatatgc aactcgatgc tccgatccca gacggtagac 360
208 tacgcgtaga ggataaacga caaacgcctt gccttcgcca aagaccgtat tgatttcac 420
209 gcgaagatag aggcgttcgc ttttgatag gccgaatgta ggcggagagg tcatttccc 480
210 ttgaggtaat cctctaattg catagccata gaaggatatt gctcggtcgg cgca 534
212 <210> SEQ ID NO: 13
213 <211> LENGTH: 495
214 <212> TYPE: DNA
215 <213> ORGANISM: Streptococcus pneumoniae
217 <400> SEQUENCE: 13
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219 ctagtcaact ttagtttctt tttactccc atttcctcc cggtaaatct ttgataatth 120
220 taatacatgg agtagattht tctccatctc tgcgtatccc aaggthtcga ctctthtcg 180
221 agcaatgaca acaaagtcga catcttctac cagactccct tttgcattct ggataaatg 240
222 ccgaatccgt cgttaattht gatttctagt gacggcatcc cccagththt tgctaactga 300
223 tagacctact cgaaaacggt tttctggtt ttctaattgg tagaccacaa atthgcgatt 360
224 agcaaaactt gtccctcct tgaaaatcgc cttaaatct ttctctctt ttacacgaaa 420
225 gththtcttc aaaactcaac tccatctatt aaattactac tattatacca taththtcaa 480
226 aaaagccaat catag 495

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PATENT APPLICATION: US/09/516,061D

TIME: 15:56:20

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\04082005\I516061D.raw

228 &lt;210&gt; SEQ ID NO: 14

229 &lt;211&gt; LENGTH: 465

230 &lt;212&gt; TYPE: DNA

231 &lt;213&gt; ORGANISM: Clostridium difficile

233 &lt;400&gt; SEQUENCE: 14

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234 tcctttaata tataaattat ttatttcaaa gtcattaacc tccatattta tagcatataa 60
235 ttaaatagaa atatccgttc ttttaactaa attttttata gacttgtcta tgtctttaaa 120
236 agtagcatcc ttactagata cccttgctat aaatactata tcatatccag gcttaatttt 180
237 ttcatacaata tttaatctgt aggcttcttt tattaatctt cttactctat tcctagtaat 240
238 agcttttctt actttttttg aaacagaaat acctactcta ctataatctg atttattttt 300
239 aagtatatat attactaaat atttgtttgc aaaagatttg ccgtgtttat atacttttct 360
240 aaaatcagag tcttttttca accctttagt cctattaaag tccatagtta acctccataa 420
241 acacagctat gaatcgtaat tatttacaca aaaaggccac ctttg 465

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243 &lt;210&gt; SEQ ID NO: 15

244 &lt;211&gt; LENGTH: 447

245 &lt;212&gt; TYPE: DNA

246 &lt;213&gt; ORGANISM: Camphylobacter jejuni

248 &lt;400&gt; SEQUENCE: 15

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250 tcatttgaaa cattctagtt ttttcaatcc ccattttaga tttttttcta acctagaaaa 120
251 agaaagtcca gtgatttcat ttttagctac aaaaatatat ttgccatctt gaagatatct 180
252 ttcaaaactta gcaaacaaag ctcttaaaat tcgttttgaa cgatttctaa ccactgcttt 240
253 tccaactttt ttactagcaa caactgctat ttttttttca taactattca gataaaaaat 300
254 gatcacacct tcgcaatgcc attttttgcc tactttatat acagatgaaa attcctcggt 360
255 tgtgctaaat ttatcaaaat ttttcacaca gcaagtcttt ttctaccttt agcgcgtctt 420
256 gcattgatca ctttgcgacc attttta 447

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258 &lt;210&gt; SEQ ID NO: 16

259 &lt;211&gt; LENGTH: 480

260 &lt;212&gt; TYPE: DNA

261 &lt;213&gt; ORGANISM: Bacillus anthracis

263 &lt;400&gt; SEQUENCE: 16

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265 tcatttctctt acgctacttt ttattctttt cataccagag cgtttaaaga catgaattaa 120
266 gcttttcttt aattcttcat atgtcatctc tgcacaaggc ttccttgcta ttataacaaa 180
267 atctttttcca gaatctatct catcttttaa ttctgtgata gactggcgaa tcatacgttt 240
268 aattcggtta cgcactactg catttctat cttcttctg acagaaaggc caatacgaaa 300
269 gtttggtctg tcttctttat ctagtgtgata gacaacaaat tgacgattcg cattcgattt 360
270 tcctttttga aaaaccgtct ggaattcctc attctttttt atacgatgtt ttttcttcat 420
271 atcaattgac actcctgtag ttcatacagc gaaattcact attattagaa aaaaagacca 480

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274 &lt;210&gt; SEQ ID NO: 17

275 &lt;211&gt; LENGTH: 480

276 &lt;212&gt; TYPE: DNA

277 &lt;213&gt; ORGANISM: Mycobacterium avium

279 &lt;400&gt; SEQUENCE: 17

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280 gtccgcgggc gacggttcgg cgggcgcgcg gaatggcgcg gcccgaccgc gccggtccgg 60
281 tcacggcccg gttccgcgcg gcatgcgcgc caggcaccgc tgcagttcct gcgccaggcg 120
282 cgcgcacgac gcggtccggc ttccgggcag cgcgcgaatc accagccggg cggatggttc 180
283 gaggtcgcgc agcaggggcc gggccacgtg acgcagccgc cgggccacgc ggtgtcgttg 240
284 caccgcgcgc ccgacggcct tcccgcacgc cagcccgacc cgtgggcccgc cggattcgtc 300

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/516,061D

DATE: 04/08/2005  
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Input Set : A:\Seqlist.txt  
Output Set: N:\CRF4\04082005\I516061D.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:44; Xaa Pos. 28  
Seq#:92; Xaa Pos. 35,63

**VERIFICATION SUMMARY**

DATE: 04/08/2005

PATENT APPLICATION: US/09/516,061D

TIME: 15:56:21

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\04082005\I516061D.raw

L:861 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:16

L:1564 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:92 after pos.:32

M:341 Repeated in SeqNo=92